

PATENT 1645

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Initial Application of
Muller et al.

Examiner: Unknown

Art Unit: 1645

Application No.: 10/067,449

Filed: Feb. 5, 2002

Title: SACCHAROMYCES CEREVISIAE YEAST STRAIN
WITH FUNCTIONAL EXPRESSION OF A GLUT
TRANSPORTER

I hereby certify that this correspondence is being
deposited with the United States Postal Service as First
Class Mail in an envelope addressed to Commissioner
of Patents, P.O. Box 1450, Alexandria VA 22313-1450
on

Date of Deposit

Signature

June 20, 2003
Debra Coughlin

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. 1.56, 1.97 AND 1.98

Mail Stop
Commissioner of Patents
P. O. Box 1450
Alexandria, VA 22313-1450

RECEIVED
JUN 26 2003
TECH CENTER 1600/2900

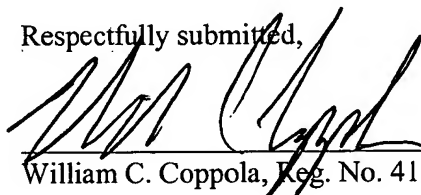
Sir:

Applicants submit herewith patents, publications, and other information of which they are aware, which they believe may be material, as defined in 37 C.F.R. 1.56(b), to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 C.F.R. 1.56(a). While the information referred to in this Information Disclosure Statement may be material pursuant to 37 C.F.R. 1.56(b), the filing of this Information Disclosure Statement is not intended to, pursuant to 37 C.F.R. 1.97(h), constitute an admission that any patent, publication or other information referred to is, or is considered to be, material to the patentability of this invention. Pursuant to 37 C.F.R. 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information exists.

- ☒ (a) This Information Disclosure Statement is filed within the period set forth in §1.97(b) because it accompanies the new patent application submitted herewith, is filed within three months of the filing date of a national application or within three months of the date of entry of the national stage as set forth in §1.491 in an international application, or is believed to be filed before the mailing date of a first Office Action on the merits, whichever event occurs last. However, in the event that the first office action has been mailed, the Commissioner is authorized to charge any fees under 37 C.F.R. 1.17(p) or credit any overpayment to Account No. 18-1982.

- ☐ (b) This Information Disclosure Statement is filed after the period set forth in 37 C.F.R. 1.97(b), but is believed to be filed before the mailing date of a final action under §1.113 or a notice of allowance under §1.311, whichever occurs first.
- ☐ (1) The undersigned attorney certifies that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement;
- ☐ (2) The undersigned attorney certifies that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned attorney after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of this statement; or
- ☐ (3) This Information Disclosure Statement is accompanied by a transmittal letter in which payment of the fee set forth in §1.17(p) and required by 37 C.F.R. 1.97(c) is authorized.

Respectfully submitted,


William C. Coppola, Reg. No. 41,686

Aventis Pharmaceuticals Inc.
Patent Department
Route #202-206 / P.O. Box 6800
Bridgewater, NJ 08807-0800
Telephone (908) 231-4854
Telefax (908) 231-2626
Aventis Docket No. DEAV2001/0002 US NP



+

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**Complete if Known**

| | |
|-------------------------------|---------------|
| Application Number | 10/067,449 |
| Filing Date | 02-05-2002 |
| First Named Inventor | MÜLLER |
| Group Art Unit | 1128 |
| Examiner Name | Unknown |
| Attorney Docket Number | DEAV2001/0002 |

(use as many sheets as necessary)

| | | | |
|-------|---|----|---|
| Sheet | 1 | of | 3 |
|-------|---|----|---|

[illegible]

RECEIVED

JUN 26 2008

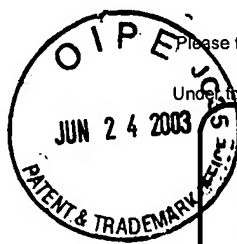
TECH CENTER 1600/2900

[illegible]Date
Considered

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.

+



Please type a plus sign (+) inside this box → ☒

PTO/SB/08B (10-96)
Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

+

RECEIVED

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

| | | | |
|-------|---|----|---|
| Sheet | 2 | of | 3 |
|-------|---|----|---|

Complete if Known

| | |
|------------------------|---------------|
| Application Number | 10/067,449 |
| Filing Date | 02-05-2002 |
| First Named Inventor | MÜLLER |
| Group Art Unit | 1128 |
| Examiner Name | Unknown |
| Attorney Docket Number | DEAV2001/0002 |

JUN 26 2003

TECH CENTER 1600/2900

| OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS | | | |
|---|-----------------------|---|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| | | Kruckberg et al., The HXT2 Gene of Saccharomyces cerevisiae Is Required for High-Affinity Glucose Transport, Molecular and Cellular Biology, Vol. 10, No. 11, Nov. 1990, pp. 5903-5913 | |
| | | Fukumoto et al., Cloning and Characterization of the Major Insulin-responsive Glucose Transporter Expressed in Human Skeletal Muscle and Other Insulin-responsive Tissues, Journal of Bio. Chem., Vol. 264, No. 15, May 15 1989, pp. 7776-7779 | |
| | | Birnbaum et al., Cloning and characterization of a cDNA encoding the rat brain glucose-transporter protein, Proc. Natl. Acad. Sci. USA Vol. 83, August 1986, pp. 5784-5788 | |
| | | Asano et al., The Role of N-Glycosylation of GLUT1 for Glucose Transport Activity, Journal of Biological Chemistry, Vol. 266, No. 36, Dec. 15, 1991, pp. 24632-24636 | |
| | | Kasahara et al., Expression of the rat GLUT1 glucose transporter in the yeast Saccharomyces cerevisiae, Biochem J. Vol. 315, 1996, pp. 177-182 | |
| | | Kasahara et al., Studies on the Glut Family Transporters: Use of the Yeast Expression System, International Symposium Kyushu Univ., 1997, pp. 201-212 | |
| | | Kasahara et al., Characterization of rat Glut4 glucose transporter expressed in the yeast Saccharomyces cerevisiae: comparison with Glut 1 glucose transporter, Biochimica et Biophysica Acta, 1997, pp. 111-119 | |
| | | Kasahara et al., Tryptophan 388 in Putative Transmembrane Segment 10 of the Rat Glucose Transporter Glut1 Is Essential for Glucose Transport, Journal of Biological Chemistry, Vol. 273, No. 44, Oct. 30, 1998, pp. 29113-29117 | |
| | | GenBank Accession No. Y17803 | |
| | | GenBank Accession No. M23384 | |
| | | GenBank Accession No. M13979 | |

| | | | |
|--------------------|--|-----------------|--|
| Examiner Signature | | Date Considered | |
|--------------------|--|-----------------|--|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

+



Please type a plus sign (+) inside this box → ☒

PTO/SB/08B (10-96)
Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet **3** of **3**

Complete if Known

| | |
|------------------------|---------------|
| Application Number | 10/067,449 |
| Filing Date | 02-05-2002 |
| First Named Inventor | MÜLLER |
| Group Art Unit | 1128 |
| Examiner Name | Unknown |
| Attorney Docket Number | DEAV2001/0002 |

RECEIVED

JUN 26 2003

TECH CENTER 1600/2900

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

| Examiner Initials [*] | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
|-----------------------------------|--------------------------|---|----------------|
| | | GenBank Accession No. M20653 | |
| | | GenBank Accession No. P17809 | |
| | | GenBank Accession No. P11167 | |
| | | GenBank Accession No. P11166 | |
| | | GenBank Accession No. P19357 | |
| | | GenBank Accession No. P14672 | |
| | | GenBank Accession No. 14142 | |
| | | GenBank Accession No. M23382 | |
| | | GenBank Accession No. D28561 | |
| | | GenBank Accession No. M20747 | |
| | | | |
| | | | |

| | | | |
|-----------------------|--|--------------------|--|
| Examiner Signature | | Date Considered | |
|-----------------------|--|--------------------|--|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.